NC/QC/YD-W-1/2018-19/BJ-C1 Date: 11-02-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Improvements to roads and drains at Bharatgowda layout and GKVK layout and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains at Jayamuninagara and surrounding areas in Kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Onkarappa. H. V.

PHYSICAL TESTS ON CEMENT

Brand : ACC
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	164 min	Shall not be less than 30 min
2	Final setting time	252 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.26 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.11 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	29.07 N/Sq mm	Shall not be less than 27 N/Sqmm

KIRAN. R
B.E, (Civil-Engg)

A.E.E

For Newzen Consultants Bangalore

Proprietor

NC/QC/YD-W-1/2018-19/BJ-PCC1 Date: 11-02-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements to roads and drains at Bharatgowda layout and GKVK layout and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains at Jayamuninagara and surrounding areas in Kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Onkarappa. H. V.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	65.35	0 -20	30- 70
10mm	28.10	0 -5	10- 35
4.75mm	3.80	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	97.40	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	84.05	60-95	75-100	85-100	
01.18	60.90	30-70	55-90	75-100	
600.mic	52.20	15-34	35-59	60-79	
300.mic	23.70	5-20	8-30	12-40	
150.mic	6.45	0-10	0-10	0-10	

KIRAN. R
M.E, (Civil-Engg)

A.E.E

For Newzen Consultants Bangalore

Proprietor

NC/QC/YD-W-1/2018-19/BJ-C2 Date: 14-02-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Improvements to roads and drains at Bharatgowda layout and GKVK layout and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains at Jayamuninagara and surrounding areas in Kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Onkarappa. H. V.

PHYSICAL TESTS ON CEMENT

Brand : ACC
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	159 min	Shall not be less than 30 min
2	Final setting time	271 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.98 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.17 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.61 N/Sq mm	Shall not be less than 27 N/Sqmm

AE

KIRAN. R
M.E, (Civil-Engg)

A.E.E

For Newzen Consultants Bangalore

Proprietor

NC/QC/YD-W-1/2018-19/BJ-PCC2 Date: 14-02-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements to roads and drains at Bharatgowda layout and GKVK layout and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains at Jayamuninagara and surrounding areas in Kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Onkarappa. H. V.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	53.95	0 -20	30- 70
10mm	28.10	0 -5	10- 35
4.75mm	4.25	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.85	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	80.40	60-95	75-100	85-100	
01.18	74.95	30-70	55-90	75-100	
600.mic	52.70	15-34	35-59	60-79	
300.mic	26.10	5-20	8-30	12-40	
150.mic	7.25	0-10	0-10	0-10	

K. R
KIRAN. R
M.E, (Civil-Engg)

A.E.E

For Newzen Consultants Bangalore

Proprietor

NC/QC/YD-W-1/2018-19/BJ-C3 Date: 16-02-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at Bharatgowda layout and GKVK layout and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains at Jayamuninagara and surrounding areas in Kempegowda ward no-01.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Onkarappa. H. V.

PHYSICAL TESTS ON CEMENT

Brand : ACC
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	164 min	Shall not be less than 30 min
2	Final setting time	257 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.86 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	1.94 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	29.22 N/Sq mm	Shall not be less than 27 N/Sqmm

KIRAN. R
M.E. (Civil-Engg)

AE-1
A.E.E

For Newzen Consultants Bangalore
Proprietor

NC/QC/YD-W-1/2018-19/BJ--FA1

Date: 16-02-2019

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: Improvements to roads and drains at Bharatgowda layout and GKVK layout and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains at Jayamuninagara and surrounding areas in Kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Onkarappa. H. V.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	95.55	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	87.10	60-95	75-100	85-100	
01.18	64.95	30-70	55-90	75-100	
600. mic	46.25	15.34	35-59	60-79	
300.mic	20.80	5-20	8-30	12-40	
150.mic	6.45	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	18.65 %	-----
2	Silt Content	----	0.59 %	Not more than 8%
3	Specific Gravity	----	2.60	-------

KIRAN. R
M.E, (Civil-Engg)

A.E.E

For Newzen Consultants Bangalore

Proprietor

NC/QC/YD-W-1/2018-19/BJ-CA1 Date: 16-02-2019

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Improvements to roads and drains at Bharatgowda layout and GKVK layout and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains at Jayamuninagara and surrounding areas in Kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Onkarappa. H. V.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	97.65	85-100	90 - 100
10 mm	36.95	0 - 20	25 - 55
4.75 mm	8.35	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	22.91%	Not to exceed 25 %
2.	Crushing value	25.84 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

KIRAN. R
M.E, (Civil-Engg)

A.E.E

For Newzen Consultants Bangalore

Proprietor

NC/QC/YD-W-1/2018-19/BJ-S1

Date: 16-02-2019

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 8 and 10 mm **TMT Steel.**
{Project*: Improvements to roads and drains at Bharatgowda layout and GKVK layout and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains at Jayamuninagara and surrounding areas in Kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Onkarappa. H. V.

TABLE – 1

SL No	Details	For 8 mm		For 10 mm	
		Test Results	Min Req. as per IS 1786-2008	Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**8.0 mm**	8.0 mm	**10.0 mm**	10.0 mm
02	Observed Wt/m Length **Kg/m**	**0.398**	0.363	**0.615**	0.567
03	Proof stress/Yield stress, fy , **N/mm^2**	**546.0**	500.0	**553.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**20.90**	16.00	**20.30**	16.00
06	Ultimate Tensile Strength **N/mm^2**	**634.0**	565.0	**617.0**	565.0

KIRAN. R
M.E, (Civil-Engg)

A.E.E

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/YD-W-1/2018-19/BJ-CB4 Date: 27-02-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to roads and drains at Bharatgowda layout and GKVK layout and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains at Jayamuninagara and surrounding areas in Kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Onkarappa. H. V.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	20-02-19	27-02-19	07	22500	380	16.89	16.74
	002	"	"	"	"	365	16.22	
	003	"	"	"	"	385	17.11	

KIRAN. R
M.E, (Civil-Engg)

AE-1
A.E.E

For Newzen Consultants Bangalore

NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/YD-W-1/2018-19/BJ-CB5 Date: 27-02-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to roads and drains at Bharatgowda layout and GKVK layout and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains at Jayamuninagara and surrounding areas in Kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Onkarappa. H. V.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	20-02-19	27-02-19	07	22500	370	16.44	16.52
	002	"	"	"	"	380	16.89	
	003	"	"	"	"	365	16.22	

KIRAN. R
M.E, (Civil-Engg)

A.E.E

For Newzen Consultants Bangalore

NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/YD-W-1/2018-19/BJ-CB7 Date: 02-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to roads and drains at Bharatgowda layout and GKVK layout and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains at Jayamuninagara and surrounding areas in Kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Onkarappa. H. V.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	23-02-19	02-03-19	07	22500	385	17.11	17.19
	002	"	"	"	"	395	17.56	
	003	"	"	"	"	380	16.89	

KIRAN. R
M.E, (Civil-Engg)

AE-1
A.E.E

For Newzen Consultants Bangalore

NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/YD-W-1/2018-19/BJ-CB1A Date: 18-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to roads and drains at Bharatgowda layout and GKVK layout and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains at Jayamuninagara and surrounding areas in Kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Onkarappa. H. V.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-02-19	18-03-19	28	22500	515	22.89	22.59
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	500	22.22	

AE

KIRAN. R
M.E, (Civil-Engg)

AE-1
A.E.E

For Newzen Consultants Bangalore

NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/YD-W-1/2018-19/BJ-CB2A

Date: 18-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to roads and drains at Bharatgowda layout and GKVK layout and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains at Jayamuninagara and surrounding areas in Kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Onkarappa. H. V.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-02-19	18-03-19	28	22500	505	22.44	22.74
	002	"	"	"	"	520	23.11	
	003	"	"	"	"	510	22.67	

KIRAN. R
M.E, (Civil-Engg)

A.E.E

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/YD-W-1/2018-19/BJ-CB4A

Date: 20-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to roads and drains at Bharatgowda layout and GKVK layout and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains at Jayamuninagara and surrounding areas in Kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Onkarappa. H. V.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	20-02-19	20-03-19	28	22500	505	22.44	22.81
	002	"	"	"	"	515	22.89	
	003	"	"	"	"	520	23.11	

KIRAN. R
M.E, (Civil-Engg)

AE-1
A.E.E

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/YD-W-1/2018-19/BJ-CB6A **Date: 22-03-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to roads and drains at Bharatgowda layout and GKVK layout and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains at Jayamuninagara and surrounding areas in Kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Onkarappa. H. V.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	22-02-19	22-03-19	28	22500	515	22.89	22.59
	002	"	"	"	"	500	22.22	
	003	"	"	"	"	510	22.67	

KIRAN. R
M.E, (Civil-Engg)

AE-1
A.E.E

For Newzen Consultants Bangalore

NC/QC/YD-W-1/2018-19/BJ-CB7A

Date: 23-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to roads and drains at Bharatgowda layout and GKVK layout and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains at Jayamuninagara and surrounding areas in Kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Onkarappa. H. V.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	23-02-19	23-03-19	28	22500	505	22.44	22.07
	002	"	"	"	"	490	21.78	
	003	"	"	"	"	495	22.00	

A.E.E

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NC/QC/YD-W-1/2018-19/BJ-CB8A

Date: 23-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to roads and drains at Bharatgowda layout and GKVK layout and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains at Jayamuninagara and surrounding areas in Kempegowda ward no-01.}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Onkarappa. H. V.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	23-02-19	23-03-19	28	22500	500	22.22	22.30
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	495	22.00	

KIRAN. R
M.E, (Civil-Engg)

A.E.E

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/YD-W-1/2018-19/BJ-K1

Date: 06-03-2019

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Improvements to roads and drains at Bharatgowda layout and GKVK layout and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains at Jayamuninagara and surrounding areas in Kempegowda ward no-01.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Onkarappa. H. V.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.41	23.10	22.85	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.33	22.60		
3	003	3.35	22.85		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.64	4.57
2	002	4.49	
3	003	4.57	

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/YD-W-1/2018-19/BJ-K2

Date: 11-03-2019

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Improvements to roads and drains at Bharatgowda layout and GKVK layout and surrounding areas in Kempegowda ward no-01 and Improvements to roads and drains at Jayamuninagara and surrounding areas in Kempegowda ward no-01.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Onkarappa. H. V.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.34	22.74	22.76	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.39	23.41		
3	003	3.30	22.13		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.99	4.88
2	002	4.86	
3	003	4.80	

KIRAN. R
M.E, (Civil-Engg)

A.E.E

For Newzen Consultants Bangalore

Proprietor